



SCHEDULE OF RATES (SOR)
LAYING OF PE PIPELINE NETWORK & ABOVEGROUND INSTALLATIONS FOR PNG CONNECTIONS AT KOLHAPUR GA
Tender No.: HOGPL/WC/2021/02



PART-A

Name of Bidder:					
SOR Line Item No.	ITEM DESCRIPTION	Unit	Quantity	Unit Rate (inclusive of all taxes and duties except GST) (in INR)	Total Cost (inclusive of all taxes and duties except GST) (in INR)
1	2	3	4	5	6 = (5 X 4)
SECTION-I : PE WORK					
PL001.00	PE PIPE LINE LAYING IN ALL TYPE OF SOIL STRATA INCLUDING HARD ROCK, USING ANY (EXCEPT HDD) LAYING METHODOLOGY (OPEN CUT/MOILING)				
	Route survey of allotted areas and Preparation /Submission of detailed route plan for approval by EIC in AutoCAD format. Receiving, handling, loading, transportation and unloading of owner supplied PE pipes and other free issue items from HOGPL's designated stock yards to Contractor's own stock-yards/ work-sites. Proper storing, stacking, identification, providing security and insurance cover for the materials. Procurement / Supply and Installation of PE Fittings, PE Valves (Long stem), Transition Fittings, Warning Mats, HDPE casing Pipes, Half concrete sleeves and all other items required for execution shall also be in Contractor's scope. Liaisoning with Landowning agencies / statutory authorities and obtaining permission from them making trial pits to determine the underground utilities/ services etc., restoration of the abandoned excavation/ trial pits (excavated to depth of 1.5 m or more as per satisfaction to EIC) to original condition, barricading the work area as per the procedures & drawings provided in the tender and as per the directions of EIC / Site-in-charge; uncoiling / stringing of pipes, jointing of the pipe ends/ fittings (Isolation Valve 1/2" & 3/4") / Transition fittings/ valves by qualified personnel, using approved electro fusion techniques as per specification.				
	Trenching of normal soil / Morrur (red soil)/ Malva / Multiple layer of Bitumen road, hard rock/ boulders using manual/pneumatic chisel and disposal of excess soil/boulders/rock etc. is in the scope of contractor and the same is to be considered by the contractor.				
	Submission of applications as per approved drawings provided by owner / owner's representative (Initial Route Survey, Preparation of Drawings, measuring and providing details of surface type shall be in scope of Contractor with approval from Owner / Owner's representative), obtaining & submission of demand note, Coordination, Liaisoning, Obtaining written permissions from Land owning agencies like private road/ apartment road, municipal corporations, PWD, NHAI, AAI, Forest Dept., Indian Railways and any other government/ private agencies who maintains the public lands. including liaisoning during execution of work and obtaining NOC from the applicable authorities.				
	Compliance to construction safety of PE Section-PPE, Continuous hard Barricades along the trenches as per approved drawing in tender, Use of Gum Boots, Hand gloves, Reflective jackets, Hard hats (helmets), Safety shoes, eye and ear safety equipment's, Fire extinguishers and as per the detailed scope of work in tender specifications.				
	Laying using any method (Open trench & Moiling with or without casing it includes survey of the under ground utilities, execution of the work as per specification (as per trench dimension Drg -attached in tender), including excavation of pits, moiling with hole size not exceeding 20% of the the carrier / casing pipe dia. jointing and insertion of the carrier pipe in casing pipe (on case to case basis) and subsequent padding with soft soil, laying of warning mat in open trench only, backfilling, compaction, submission of as built drawing, as graphs as per attached specification and instruction of EIC / Site Engineer of Owner. Includes laying of pipeline in all type of surface including Kutcha, metal, concrete (PCC/RCC), bituminous, tiled, brick lined etc. after raking up of hard surface of any type; Roads, Pavement, Footpaths etc. shall be made motorable once the pipeline is laid.				
	All service line as required shall be laid within this SOR and no extra payment shall be made for service line in any other SOR line item.				
	Supply & installation of GI Sleeves, 2.5" NB x 300 mm length GI pipe Sleeve / Half Round Concrete Sleeves for domestic connections, 3" NB x 300 mm length GI Sleeve for commercial and industrial installations (as per GI Pipe Sleeve drawing attached in tender document), and 1/2 Round concrete sleeve, as per GI Pipe Sleeve drawing attached in tender document) excavation, breaking through any obstructions, insertion of pipe, sealing the annulus, fixing of the sleeves with concrete mix, preparation of pedestal & restoration of excavated pits within the size of pedestal & the same pit with the laying of 20/32 mm dia PE pipe as defined in technical specification and instruction of EIC.				
	Flushing, cleaning ,Pneumatic testing, purging with nitrogen and commissioning as per specification and approved procedures providing all tools and tackles, nitrogen, instruments, manpower and other related accessories including PPE and as per instructions of the Engineer-in charge.				
	Maintaining the completed pipelines/ installation for any defect, failures during defect liability period.				
	Handing over the completed works to HOGPL for their operation/ use, returning of all surplus material to HOGPL stores, reconciliation of free issue material area wise and obtaining no objection certificate. (Handing Over the Completed Works to HOGPL Post Commissioning. It Shall Be Contractor's Responsibility to Maintain the Line in Positive Pressure till It Is Handed Over To HOGPL)				
	On completion of gas charging of pipelines, preparation and submission of As built drawings, As graph drawings, crossings details, termination, utility graphs and deviation statements with Hard & Soft copy.				
	Submission of all documents required for contract closure in numbers as mentioned in contract.				
	Laying of PE pipeline, with or without casing, in case if existing dedicated trench of approx. size 400mm x 600mm is already provided with removable top cover; Scope includes removal of precast RCC slab covers from channel, laying of pipeline, jointing, testing, sand filling (including supply) refixing top cover of pipe trench.				
	In case 2 PE pipelines are laid in a common trench, SOR rate of higher dia plus 1/3 (0.333) x SOR rate of lower dia will be paid				
	Any other activities not mentioned / covered explicitly above, but otherwise required for satisfactory completion / operation / safety / statutory / maintenance of the works shall also be covered under the scope of work and has to be completed by Contractor within specified schedule at no extra cost to Owner. All the work shall be executed in accordance with the provision of contract.				
PL001.01	Laying, Testing & commissioning of PE pipe 20 mm Dia (SDR11)	Mtrs.	12,000.00		-
PL001.02	Laying, Testing & commissioning of PE pipe 32 mm Dia (SDR11)	Mtrs.	100,000.00		-
PL001.03	Laying, Testing & commissioning of PE pipe 63 mm Dia (SDR11)	Mtrs.	12,000.00		-



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	<p>Note:</p> <p>1. Supply & Installation of GI Sleeve 1/2 round concrete sleeve & warning mat (Open trench excavation) shall be included in laying of PE Pipe, no extra cost shall be paid else where in the SOR.</p> <p>2. Liaisoning & getting necessary permission & clearance shall be in the scope of contractor, Collaborate, Cooperate, co-ordination and communication for completing the site work during construction/laying in the scope of contractor and shall be included in the above SOR line item. No charges Collaboration, Cooperation, co-ordination and communication towards for laying shall be paid elsewhere.</p> <p>3. Supply & installation of all PE fitting & Valves for safely commissioning of entire network shall be in the scope of Contractor.</p>				-
PL002.00	EXCAVATION OF HARD ROCK				-
	Trenching of Hard Rock is defined as trench material with a single piece of rock, dimension exceeding 1.0 meter in any direction, which requires cutting only by use of manual/pneumatic chisel/drill or sledge hammer and chisel or removal of same by additional techniques. The disposal of excess rock as per the requirement of authorities. The rates are payable over and above the Laying rates as per relevant SOR item no. - PL001.00 above.				-
PL002.01	Excavation of Hard Rock.	CU.M.	1,000.00		-
PL003.00	FABRICATION & INSTALLATION OF PIPELINE MARKERS				-
	Supply and Installation of Stone Route Markers, Powder Coated Plate / Pole Markers as per the attached drawings, along the route / along boundary wall, lamp posts including all associated civil works such as excavation and construction in all types of soils, construction of pedestals of RCC and PCC and grouting with concrete, cleaning, supply and application of approved colour and quality of primer and paint, stencil letter cutting of numbers, direction, chainage etc., restoration of area to original condition and performing all works as per drawings, specification and instruction of Engineer-in-Charge. The rates shall include liaison rates with statutory bodies and restoration rates and no separate rates are payable under this SOR.				-
PL003.01	Stone Route Markers as per Drg No 1007-10-03--29 as per instruction of EIC and specifications.	Nos	500.00		-
PL003.02	Pole markers with foundation as per Drawing No. Drg No 1007-10-03-30 & 1007-10-03-31 and instructions of EIC and specification	Nos	100.00		-
PL003.03	Plate marker as per Drg No Drg No 1007-10-03--28 at house as per instruction of EIC and specifications.	Nos	12,000.00		-
PL004.00	RESTORATION OF TRENCHES				-
PL004.01	Restoration to original conditions of dismantled surface like Asphalted/Bituminous Road, Concrete Pavement, Agra /Kota Stones / Tiles (Chequered/interlocking etc.), Dry Brick Pavement as per the technical specifications attached in the tender after laying of pipeline in Built- Up surface, as per the directions of EIC / Site Incharge. Restoration of society to original conditions and get NOC from society for payments .Scope includes supply of the approved quality material, testing of materials by third party agencies as per technical specification / CPWD / IRC Standards, submission of the restoration reports, obtaining no objection certificates from the concern local authorities /land owners / third party inspection agencies designated by land owing agencies and Owner.				-
	a Asphalt/Bituminous Road	RM	4,000.00		-
	b Concrete Pavement, Agra /Kota Stones / Tiles (Chequered/interlocking etc.	RM	16,000.00		-
PL005.00	CHARGES FOR COMPLIANCE TO HEALTH, SAFETY & ENVIRONMENT (HSE)				-
PL005.01	a PE Section-PPE, Contineous Barricades along the trenches as per approved drawing in tender, Use of Safety Boots, Hand gloves, Reflective jackets, Hard hats(helmets), Safety shoes, eye and ear safety equipments, Fire extinguishers and as per the detailed scope of work in tender specifications. Cone barricade in LP Line shall be provided by contractor. Note: Charges towards HSE for PE shall only paid for 63 mm and above dia.	Mtrs.	190,000.00		-
PL005.02	b GI Section- Safety requirement per Rise- Use of Fall arrestor/ petzi, Ascendors/descendors, PPE, Barricades/ Warning Boards (03 Nos.) connected with warning/Caution tapes in areas where piping work is in progress , Use of Safety shoes, Walky talky, Hand gloves, Reflective jackets, Hard hats(helmets), eye and ear safety equipments, Fire extinguishers and as per the detailed scope of work in tender specifications; In case of non compliance- Refere SCC clause - for applicable penalty . Upto 4th GI (G+4) floor full body safety harness & accessories shall be of KARAM or equivalent make. Note- This SOR is applicable for Non LMC length of GI Section only and riser up to ground floor only shall not be considered in this SOR.	Nos	12,000.00		-



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PL005.03	<p>c</p> <p>GI Section- Safety requirement per Rise-Use of Fall arrestor/ petzl, Ascendors/descendors, PPE, Barricades/ Warning Boards (03 Nos.) connected with warning/Caution tapes in areas where piping work is in progress , Use of Safety shoes, Walky talky, Hand gloves, Reflective jackets, Hard hats(helmets), eye and ear safety equipments, Fire extinguishers and as per the detailed scope of work in tender specifications; In case of non compliance- Refere SCC clause - for applicable penalty. GI (G+5) and above including high rise Above 4th floor full body safety harness & accessories shall be of PETZL is compulsory. Note- This SOR is applicable for Non LMC length of GI Section only and riser up to ground floor only shall not be considered in this SOR. Bidder to note that only one of the SOR Item a and b shall be payable based on the no. of floor of the riser.</p>	Nos	1,500.00		-
PL006.00	JOINTING, FLUSHING, TESTING, NITROGEN PURGING AND GAS COMMISSIONING/CHARGING OF ALREADY LAID/EXISTING PE NETWORK				-
	Pneumatic testing, purging with nitrogen & Commissioning of already laid PE Pipe (PE 80/100, SDR 11) including supply of manpower, labour (to identify the leak / making the pits), jointing of fittings, its installation and manpower, labour (for making the pits) etc. and submission of final documents (Like: As-built etc) and tapping from main line/charged line is the scope of contractor. The supply of all kind of PE fitting including TF etc is covered under this SOR.				-
	Jointing, Flushing, cleaning, Pneumatic testing, purging with nitrogen and commissioning including supply & installations of all required PE fitting as per specification and approved procedures providing all tools and tackles, nitrogen, instruments, manpower and other related accessories including PPE and as per instructions of the Engineer-in charge.				-
	Maintaining the completed pipelines/ installation for any defect, failures during defect liability period.				-
	Handing over the completed works to HOGPL for their operation/ use, returning of all surplus material to HOGPL stores, reconciliation of free issue material area wise and obtaining no objection certificate.				-
	In case, the minimum required depth is not possible due to site condition, necessary mitigation measures shall be required to be taken by contractor in consultation with EIC as per PNGRB Guidelines. No additional payment shall be admissible against the same.				-
	On completion of gas charging of pipelines, preparation and submission of As built drawings, As graph drawings, crossings details, termination, utility graphs and deviation statements with Hard & Soft copy.				-
	Submission of all documents required for contract closure in numbers as mentioned in Tender Documents				-
PL006.01	20 mm Dia PE pipe	Mtrs.	12,000.00		-
PL006.02	32 mm Dia PE pipe	Mtrs.	30,000.00		-
PL006.03	63 mm Dia PE pipe	Mtrs.	10,000.00		-
PL006.04	125 mm Dia PE pipe	Mtrs.	10,000.00		-
PL006.05	Jointing of fitting of 20 mm and 32 mm Dia	Nos	5,000.00		-
PL006.06	Jointing of fitting of 63 mm and 125 mm Dia	Nos	3,000.00		-
	<p>Note:</p> <p>1. Supply of valve, fitting & all associated consumables shall be in scope of contractor. HOGPL shall provide PE pipe of dia 20 mm to 125 mm as free issue material. 2. SOR line item PL006.00 include, testing, flusing, pre-commissioning/commissioning of the network. No extra charges for nitrogen purging shall be paid elsewhere.</p>				-





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SECTION II : GI / COPPER WORK					
PL007.00	INSTALLATION OF POWDER COATED GI PIPE & CU PIPE				-
	Assessment of material requirement for installation at site, Order placement and Purchasing of Powder coated GI fittings Brass Fittings (except appliance & isolation valves) from approved vendors of HOGPL, Scheduling, Planning of material & Forwarding inspection call, getting dispatch clearance, handling, loading, transportation and unloading of these items at respective contractor's store. Receiving, taking over, handling, loading, transportation and unloading of HOGPL supplied Powder coated GI Pipes, Copper pipes, regulators, meters, Isolation Valves, appliance valves and free issue items (if any other) as defined in specification from HOGPL's designated stock yards to Contractor's own stores / work sites, proper storing, stacking, identification, providing security and insurance cover. Preparation and approval of sketches, schedules & execution procedures. Finalising optimum route with consent of customer from transition fitting to cooking oven / appliance and ensuring installations in well ventilated area. Making temporary but stable platforms/ scaffolding/ rope ladders and supply of all other safety devices. Portal entry for new connections - New registration tracking and feasibility survey and its updation as per HOGPL defined TAT; printing of stationary as per approved HOGPL formats required during connections. Follow-up and attend complaints receives from customer regarding delay in new connection & NG conversion (refer drawing attached in tender document)				-
	Installation of GI service pipes & fittings, regulators, Valves etc. including NPT threading, as specified, Drillings of holes through the walls (Brick, RCC), Granite, Marble, Wood Cutting, Glass Cutting with proper heavy duty hammer drill machine, tools & tackles, using proper sealant/ grout material and colours to match the original replacement of the damages during drilling, restoring the area to the original condition, Painting of scratched length of powder coated pipe and fittings after proper surface finish by one coat of approved primer paint and two coats of approved synthetic enamel paint. Restoring the wall surface to original conditions.				-
	Copper tube shall be installed from the downstream of meter up to the isolation valve before the customer appliance as per requirement and the satisfaction of EIC, the contractor to provide all equipment, tools and materials necessary to execute the work in efficient manner by cutting, cleaning, flux application, soldering and lacquering. The work includes supply of tools, tackles and consumables including clamp for fixing the tubes.				-
	Supply & fixing of approved clamps & nylon rawl plugs with SS-304, 2" screws, grout material, suitable thread sealant i.e. Teflon Tape, Joining of transition fitting to above ground service GI pipes, testing, purging and commission of the complete installation. The rates in connections also includes meter installation, tap off rates. The GI installation in already gas charged areas, planning & coordinating with existing consumer's for New tap offs from existing riser with or without tee, testing of these existing risers and commissioning of these connections with newly tap offs etc.is inclusive.				-
PL007.01	Installation of 1/2" Powder coated GI pipe from TF to regulator / Riser isolation valve.	Mtrs.	15,000.00		-
PL007.02	Installation of 1/2" Powder coated GI pipe riser from regulator isolation valve to lateral isolation valve up to G+4 Apt along with LIV to Brass fitting and Individual kothi/ Bungalow. (as per instruction of EIC & drawing attached in tender documents)	Mtrs.	150,000.00		-
PL007.03	Installation of Powder coated 1" from TF to regulator/ Riser isolation valve.	Mtrs.	100.00		-
PL007.04	Installation of powder coated 1" GI Riser from regulator isolation valve to lateral isolation valve above G+4 Apt and Individual kothi/ Bungalow. (as per instruction of EIC & drawing attached in tender documents)	Mtrs.	1,500.00		-
PL007.05	Installation of powder coated 3/4" GI Pipe from TF to regulator/ Riser isolation valve.	Mtrs.	8,000.00		-
PL007.06	Installation of powder coated 3/4" GI Riser from regulator isolation valve to lateral isolation valve up along with LIV to Brass fitting to G+4 Apt and Individual kothi/ Bungalow. (as per instruction of EIC & drawing attached in tender documents)	Mtrs.	48,000.00		-
PL007.07	Installation of 12 mm Copper Pipe	Mtrs.	55,000.00		-
	Note: 1. Supply & installation/jointing of all PE fittings, GI / forged fitting, couplers & all other consumables required for installation of GI pipes complete in all aspects shall be in scope of contractor, no extra payment shall be paid elsewhere for the same. 2. Supply & installation/jointing of all other GI/CU fittings & consumables required for PNG connection ready for commercial utilization shall be in the scope of contractor, no extra payment shall be paid elsewhere for the same. 3. SOW line item PL007.00 , includes testing of riser as per standard test procedures stipulated in tender documents or as per EIC. 4. Supply of Isolation valve, GI Pipe, Copper pipe shall be FIM by HOGPL. However, installation shall be carried out by contractor. no extra cost shall be paid elsewhere. 5. GI Fittings, Isolation ball & Appliance valves shall not be counted separately. It shall be measured along with GI & Cu pipe. 6. Collection of payment for extra GI/CU pipe for connections over and above 15 mtrs from lateral isolation is in contractor's scope as per PNGRB Rule or as per instruction of EIC.				-
PL009.00	PNG CONNECTIONS IN PROJECT AREA				-

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PL009.01	Receiving HOGPL supplied materials as specified in tender documents from HOGPL's store, handling, insurance, loading, transportation & unloading at contractor's store. Conversions of all the domestic LPG Stove (one appliance per household) to Natural Gas (NG) based appliances, Supply & changing of the nozzles / jets and associated controls for domestic & imported appliances with proper tools and tackles. The rates include testing of Kitchen piping from meter to Appliance valve and supply and fixing of Suraksha rubber hose, one Steel reinforced Flexible Hose as per IS 9573 (with Type as per latest PNGRB guidelines) per appliance/stove with clamps along with all required CU/GI fitting & consumables required for conversion of connection shall be in the scope of contractor. Cleaning and performing minor maintenance including gas inlet side change in stove, greasing etc. of the appliance. Testing and showing the performance to the customer, signing of joint meter records (JMR) and instructing the customer on use & safety norms, complete as per specifications & to satisfaction of owner / Engineer in Charge.	Nos	10,000.00		-
	Note: 1. This SOR line item includes installation of Meters & Regulators for connectivity with GI/Cu pipe, appliance valves, isolation valves. 2. Supply & installation/jointing of all other GI/CU fittings & consumables required for PNG connection ready for commercial utilization shall be in the scope of contractor, no extra payment shall be paid elsewhere for the same. 3. SOR line item PL009.00, includes testing of entire connectivity for PNG connections as per standard test procedures stipulated in tender documents or as per EIC. 4. The above SOR line item includes supply & installation of Steel Reinforced/flexible rubber hose, clamps, screw and all other consumables along with NG conversion & NG conversion tools. 5. The above SOR line items includes collection of charges towards consumption of extra Pipe beyond 15 mtrs from lateral isolations. 6. Supply of Isolation valve & Appliance valves shall be in FIM by HOGPL. However, installation shall be carried out by contractor. no extra cost shall be paid elsewhere.				-
PL010.00	PNG CONNECTIONS IN O&M AREA				-
PL010.01	Receiving HOGPL supplied materials as specified in tender documents from HOGPL's store, handling, insurance, loading, transportation & unloading at contractor's store. Conversions of all the domestic LPG Stove (one appliance per household) to Natural Gas (NG) based appliances, Supply & changing of the nozzles / jets and associated controls for domestic & imported appliances with proper tools and tackles. The rates include testing of Kitchen piping from meter to Appliance valve and supply and fixing of Suraksha rubber hose, one Steel reinforced Flexible Hose as per IS 9573 (with Type as per latest PNGRB guidelines) per appliance/stove with clamps along with all required CU/GI fitting & consumables required for conversion of connection shall be in the scope of contractor. Cleaning and performing minor maintenance including gas inlet side change in stove, greasing etc. of the appliance. Testing and showing the performance to the customer, signing of joint meter records (JMR) and instructing the customer on use & safety norms, complete as per specifications & to satisfaction of owner / Engineer in Charge.	Nos	5,000.00		-
	Note: 1. This SOR line item includes installation of Meters & Regulators for connectivity with GI/Cu pipe, appliance valves, isolation valves. 2. Supply & installation/jointing of all other GI/CU fittings & consumables required for PNG connection ready for commercial utilization shall be in the scope of contractor, no extra payment shall be paid elsewhere for the same. 3. SOR line item PL009.00, includes testing of entire connectivity for PNG connections as per standard test procedures stipulated in tender documents or as per EIC. 4. The above SOR line item includes supply & installation of Steel Reinforced/flexible rubber hose, clamps, screw and all other consumables along with NG conversion & NG conversion tools. 5. The above SOR line items includes collection of charges towards consumption of extra Pipe beyond 15 mtrs from lateral isolations. 6. Supply of Isolation valve & Appliance valves shall be in FIM by HOGPL. However, installation shall be carried out by contractor. no extra cost shall be paid elsewhere.				-
PL011.00	TESTING AND CONVERSION OF DOMESTIC APPLIANCES IN PROJECT & O&M AREA				-
	Conversions of all types of LPG Kitchen appliances to NG based appliances, Supply & changing of the nozzles / jets and associated controls for domestic & imported appliances with proper tools and tackles. The rates include testing of Kitchen piping from meter to Appliance valve and supply and fixing of one steel reinforced rubber hose (1.5 m) per appliance/stove with clamps. Cleaning and performing minor maintenance, greasing etc. of the appliance. Testing and showing the performance to the customer, signing of joint meter records (JMR) and instructing the customer on use & safety norms, complete as per specifications & to satisfaction of owner / Engineer in Charge. This SOR is applicable for left out NG conversions by other contractor or as per the instructions of EIC.				-
	Note: 1. This SOR line item PL011.00 shall not be paid for domestic PNG connections i.e., SOR line item PL008, PL009. This shall be paid as per instruction of EIC/HOGPL representative.				-
PL011.01	Testing and conversion of Domestic Appliances (NG Conversion per burner)	Nos	10,000.00		-
SECTION -III : Civil Works					



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CV001.00	EQUIPMENT FOUNDATION WORKS: (EXCAVATION, PROVIDING AND LAYING REINFORCED CEMENT CONCRETE (M-15))				-
CV001.01	Excavation in any plane & dimension including disposal of excavated earth up to any lead in all conditions, backfilling using serviceable earth and disposal of surplus and unserviceable earth. Soil to be levelled and properly compacted complete in all respect as per scope of work, technical specification and directions of EIC. Providing and laying REINFORCED CEMENT CONCRETE OF M-15 Grade (Concrete shall be design mix / nominal mix) with 20mm & down size graded crushed stone aggregates in NON SUSPENDED slabs/pavement slabs including pedestals, ramps etc. laying in alternate panels to required slopes, all necessary form work and finishing the top surface rough or smooth as required and directed, providing pockets/openings etc. including vibrating, tampering, curing, rendering and making smooth if required in any position, shape, level and thickness etc. as specified and directed by EIC. The rates include grouting of pockets, supply of material, shuttering, tools & tackles, Reinforcement etc.	CU.M.	2,500.00		-
CV002.00	INSTALLATIONS OF SERVICE REGULATOR				-
	Receiving, handling, loading, transportation and unloading of owner supplied service regulator from Owner's designated stock yards to Contractor's own stock-yards/ work-sites. Proper storing, stacking, identification, providing security and insurance cover for the materials. Supply of cover box for service regulator is in the scope of contractor. Installations of service regulator with all associated work at foundation and hooking up with PE pipe line. The scope includes supply of transition fittings and other PE and CS fittings as per requirements and various associated works (including steel welding, if required) to commission Service Regulator. Payment towards civil foundation work & structural work for gate and fencing shall be payable as per relevant SOR items.				-
CV002.01	Installation of Service Regulator with canopy including all fittings with Civil work	Nos	100.00		-
CV002.02	Installation of Service Regulator (canopy Module) including all fittings with Civil work	Nos	300.00		-
CV003.00	INSTALLATION OF VALVE CHAMBERS:				-
	All civil works including supply of materials, excavation of pit, piping supports including all PCC, RCC and Brick works for valve pits, sand filling to cover valve body and pits, pedestals with insert plates as required, sealing of pipes in pits, providing cover etc., finishing, clean up and restoration. The work shall be executed as per specification. Also providing water proofing agents internal and external plaster of chamber to avoid water seepage. Refer Drg No 1007- 10-03--19, 20, 21 & 22.)				-
CV003.01	RCC Valve Chambers- Size (L x W)- 1.5m x 1 m	Nos	6.00		-
CV003.02	RCC Valve Chambers- Size (L x W)- 1 m x 1 m	Nos	12.00		-
	Note: 1. Supply & Installation of PE valve shall be in the scope of contractor & shall be paid along the laying of PE pipe SOR line items no. PL001.00. No extra cost shall be paid else where.				-
SECTION -IV (Marketing) DMA					
DM001.00.00	Carrying out the work of obtaining PNG registration in all respect as detailed in Scope of work and Special Conditions of contract and as per directions/instructions of Engineer In charge /Authorized representative including but not limited to following : 1) Enrolment & Registration of PNG Customers as per the given target. 2) Collection of filled up form along with Security Deposit amount (only in the form of cheque/Demand Draft/ Online mode) and relevant documents. 3) Carrying out the work of demand registration, evaluation, facilitation of signing of GSA and collection of security deposit and payment against payment security as detailed in scope of work and special condition of contract of tender document as per requirement and the satisfaction of the EIC for industrial and commercial customers. 4) Carrying out the marketing activities for PNG connection as per directions/instructions of the EIC including but not limited to the following: Printing & Distribution of leaflets & FAQ, Printing & Installation of banners at prime locations, Awareness cum Registration Camp, Audio/Visual Presentations, Organizing Road Shows, etc.				-
DM001.01.00	Domestic PNG Connections	Nos	10,000.00		-
	Notes: 1) The SOR items would be executed as per the job requirement. 2) The scope as mentioned in the above SOR is of indicative nature only and shall include all activities as detailed in the relevant clauses of the specifications. 3) Any other material & activities not mentioned/covered above, but otherwise required for satisfactory completion/safety of work as defined in tender has to be supplied / done by contractor at no extra cost to owner. 4) Prices quoted in column shall be all inclusive of all taxes / duties (excluding GST) and nothing extra shall be payable by the Owner except for statutory variation in GST. 5) The quantities mentioned in SOR are tentative only and for the purpose of evaluation and may vary as per the actual site condition. 6) The SOR shall be read along with the relevant clauses of tender document 7) Collection of payment for extra GI pipe for connections over and above 15 mtrs from lateral isolation is in contractor's scope. 8) Receiving NOC from society shall be in scope of contractor.				-
Total Cost (Excluding GST)					-
GST @18%					-



SCHEDULE OF RATES (SOR)
LAYING OF PE PIPELINE NETWORK & ABOVEGROUND INSTALLATIONS FOR PNG CONNECTIONS AT KOLHAPUR GA
Tender No.: HOGPL/WC/2021/02



PART-A

Name of Bidder:

SOR Line Item No.	ITEM DESCRIPTION	Unit	Quantity	Unit Rate (inclusive of all taxes and duties except GST) (in INR)	Total Cost (inclusive of all taxes and duties except GST) (in INR)
1	2	3	4	5	6 = (5 X 4)
Total Cost (including GST)					-

Note:

1. Bidder to quote full quantities of quotes parts. Bidder quoted with part quantities of quotes part shall be liable for rejection.
2. Quoted price shall be inclusive of all taxes and duties except GST.
3. Bidder shall quote prices in given format of Schedule of Rates and shall not modify the format in any form.
4. Bidder to clearly indicate 'Quoted' against each Sr. No. in the price column in the un-priced Schedule of Rates and submit the same in the un-priced part of the bid.
5. Bidder to fill entries in "Blue" highlighted cell/box only.

Authorized signatory of Bidder:

Place:

Seal of Bidder:

Date:



SCHEDULE OF RATES (SOR)
LAYING OF PE PIPELINE NETWORK & ABOVEGROUND INSTALLATIONS FOR PNG CONNECTIONS AT KOLHAPUR GA



Tender No.: HOGPL/WC/2021/02

PART-B

Name of Bidder:

Item NO.	DESCRIPTION	Unit	Quantity	Unit Rate (inclusive of all taxes and duties except GST) (in INR)	Total Cost (inclusive of all taxes and duties except GST) (in INR)
1	2	3	4	5	6 = (5 X 4)
	Laying of PE Pipeline of PE 100 grade with SDR 11 having following sizes by HDD method in all kind of soil (soft/hard) with all kind of surface (normal/built-up). This rate is applicable for all kind of soil and all kind of surface including built-up surface. The following are in the scope of this item: Procurement and Installation of PE Fittings, PE Valves, Transition Fittings, Warning Mats, HDPE casing Pipes, Half concrete sleeves and other items required for execution shall also be in Contractor's scope. Preparation of detailed route plan, making trial pits to determine the underground utilities/ services etc. Liasioning shall be carried out by the contractor to complete the project in totality. Restoration of the abandoned excavation / trial pits (excavated to depth of 1.5 m or more as per satisfaction to Engineer- Incharge (EIC) to original condition, barricading the work area as per the procedures & drawings provided in the tender and as per the directions of EIC. Dewatering of trenches / pits if required as per site condition. Repairing of all damaged utilities if any, and payment of any compensation (if claimed by owner / other utility agencies). Trenching to the required depth in all type of surface (however putting up sufficient protection / casings without any additional cost at locations where proper depth cannot be attained), uncoiling / stringing of pipes, jointing of the pipe ends / fittings / valves by qualified personnel, using approved electro fusion techniques as per the specification. This SOR line items excavation of hard rock such & wethered rock as well.				
	Receiving, handling, loading, transportation and unloading of owner supplied PE pipes from or any other free issue material Owner's designated stock yards to Contractor's own stock-yards / work-sites. Proper storing, stacking, identification, providing security and insurance cover for the materials.				
	Survey & route map drawings, as per site condition shall be prepared by contractor and submitted to HOGPL/VCS for approval and execution shall start after due approval. Further, the scope also includes preparation of drawing, for any change in route due to site condition for mainline (125/90/63 mm Dia), re- route alignment drawing shall also be prepared by contractor				
	Preparation and getting approval of schedules, execution procedures, drawings / sketches. Finalizing optimum route with consent of EIC.				
	Uncoiling, stringing, laying and alignment of the PE pipes of the required sizes in trench to achieve desired top cover of pipeline.				
	Cleaning the area of all unserviceable materials, debris, excess earth near trenches to the designated disposal area as per specifications, instructions of land owners / EIC to the complete satisfaction of local authorities.				
	On completion of laying of pipelines, preparation and submission of as-built drawings, crossings details, termination, utility graphs and deviation statements. Submission of all documents required for contract closure in numbers as mentioned in tender documents.				
	Handing over the completed works to owner for their operation/ use, returning of all surplus material to owner stores, reconciliation of free issue material area wise and obtaining no objection certificate.				
	Submission of as-graphs and as-built drawings as per the attached specification and the instruction of EIC/ Owner.				
	Final clean-up of right-of-use or area disturbed by contractor during their construction activities for laying of pipeline works and disposal of debris and surplus material to designated disposal areas and backfilling of trench and compaction of the same as per satisfaction of Owner and / or as directed by EIC.				
	Preparation, Certification and submission of (DPR) daily progress reports, graphs, As-built drawings, crossings details, utility graphs and deviation statements.GIS data collection.				
	The list of areas where the pipeline to be laid/ allocation of work will be done after awarding of the tender. The quantities are tentative and it may be changed during the tenure of contract as per the requirement of the Owner.				
PL001.00	PE PIPE LINE LAYING BY HDD METHOD IN ALL TYPE OF SOIL STRATA INCLUDING HARD ROCK STRATA WITH CASING USING DIAMOND CUTTER (INCLUDING SUPPLY & INSTALLATION OF HDPE CASING PIPES)				



SCHEDULE OF RATES (SOR)
LAYING OF PE PIPELINE NETWORK & ABOVEGROUND INSTALLATIONS FOR PNG CONNECTIONS AT KOLHAPUR GA
Tender No.: HOGPL/WC/2021/02



PART-B

Name of Bidder:

Item NO.	DESCRIPTION	Unit	Quantity	Unit Rate (inclusive of all taxes and duties except GST) (in INR)	Total Cost (inclusive of all taxes and duties except GST) (in INR)
1	2	3	4	5	6 = (5 X 4)
	Survey of the under ground utilities, submission of HDD profile for approval, execution of the work as per the standard procedure attached, including excavation of the pits, Jointing of casing and carrier pipe and insertion of the carrier pipe in casing of dia 110 mm for 32 mm dia, 160mm for 63 mm & 250 mm dia for 125 mm dia MDPE, subsequent sealing, backfilling, compaction, submission of as built graphs, final HDD profiles as per attached specification and the instruction of EIC / Site Engineer of Owner. The other activities are as per detailed discription above, specification and as per the instructions of the EIC / Site engineer of Owner. Diamond cutter & associated equipment required for execution of work shall be in the scope of contractor. Note: 1. Supply of HDPE pipe, its associated fittings, PE fittings & valves along with all consumables & fitting required for successful completion of project.				
PL001.01	Laying of 32 mm Dia PE by HDD method in all type of soil strata including hard rock strata with casing with diamond cutter as per instruction of EIC.	Mtrs.	750.00		-
PL001.02	Laying of 63 mm Dia PE by HDD method in all type of soil strata including hard rock strata with casing with Diamond cutter as per instruction of EIC.	Mtrs.	302.00		-
PL001.03	Laying of 125 mm Dia PE by HDD method in all type of soil strata including hard rock strata with casing with Diamond cutter as per instruction of EIC.	Mtrs.	37.00		-
PL002.00	PE PIPE LINE LAYING BY HDD METHOD IN ALL TYPE OF SOIL STRATA INCLUDING HARD ROCK STRATA WITH CASING WITHOUT DIAMOND CUTTER (INCLUDING SUPPLY & INSTALLATION OF HDPE CASING PIPES)			-	-
	Survey of the under ground utilities, submission of HDD profile for approval, execution of the work as per the standard procedure attached, including excavation of the pits, Jointing of casing and carrier pipe and insertion of the carrier pipe in casing of dia 110 mm for 32 mm dia, 160mm for 63 mm & 250 mm dia for 125 mm dia MDPE, subsequent sealing, backfilling, compaction, submission of as built graphs, final HDD profiles as per attached specification and the instruction of EIC / Site Engineer of Owner. The other activities are as per detailed discription above, specification and as per the instructions of the EIC / Site engineer of Owner. Note: 1. Supply of HDPE pipe, its associated fittings, PE fittings & valves along with all consumables & fitting required for successful completion of project.				
PL002.01	Laying of 32 mm Dia PE by HDD method in all type of soil strata including hard rock strata with casing without diamond cutter as per instruction of EIC.	Mtrs.	500.00		-
PL002.02	Laying of 63 mm Dia PE by HDD method in all type of soil strata including hard rock strata with casing without Diamond cutter as per instruction of EIC.	Mtrs.	201.00		-
PL002.03	Laying of 125 mm Dia PE by HDD method in all type of soil strata including hard rock strata with casing without Diamond cutter as per instruction of EIC.	Mtrs.	55.00		-
PL003.00	PE PIPE LINE LAYING BY HDD METHOD IN ALL TYPE OF SOIL STRATA INCLUDING HARD ROCK STRATA WITHOUT CASING WITH DIAMOND CUTTER.			-	-
	Survey of the under ground utilities, submission of HDD profile for approval, execution of the work as per the standard procedure attached, including excavation of the pits, submission of as built graphs, final HDD profiles as per attached specification and the instruction of EIC / Site Engineer of Owner. The other activities are as per discription above, detailed specification and as per the instructions of the EIC / Site engineer of Owner. Diamond cutter & associated equipment required for execution of work shall be in the scope of contractor. Note: 1. The payment shall be made for length of pipe laid in HDD. 2. Supply of PE fittings & valves along with all consumables & fitting required for successful completion of project.				



SCHEDULE OF RATES (SOR)
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Tender No.: HOGPL/WC/2021/02



PART-B

Name of Bidder:

Item NO.	DESCRIPTION	Unit	Quantity	Unit Rate (inclusive of all taxes and duties except GST) (in INR)	Total Cost (inclusive of all taxes and duties except GST) (in INR)
1	2	3	4	5	6 = (5 X 4)
PL003.01	Laying of 32 mm Dia PE by HDD method in all type of soil strata including hard rock strata without casing with diamond cutter as per instruction of EIC.	Mtrs.	15,000.00		-
PL003.02	Laying of 63 mm Dia PE by HDD method in all type of soil strata including hard rock strata without casing with Diamond cutter as per instruction of EIC.	Mtrs.	6,024.00		-
PL003.03	Laying of 125 mm Dia PE by HDD method in all type of soil strata including hard rock strata without casing with Diamond Cutter as per instruction of EIC.	Mtrs.	1,083.00		-
PL004.00	PE PIPE LINE LAYING BY HDD METHOD IN ALL TYPE OF SOIL STRATA INCLUDING HARD ROCK STRATA WITHOUT CASING WITHOUT DIAMOND CUTTER.			-	-
	Survey of the under ground utilities, submission of HDD profile for approval, execution of the work as per the standard procedure attached, including excavation of the pits, submission of as built graphs, final HDD profiles as per attached specification and the instruction of EIC / Site Engineer of Owner. The other activities are as per discription above, detailed specification and as per the instructions of the EIC / Site engineer of Owner. Note: 1. The payment shall be made for length of pipe laid in HDD. 2. Supply of PE fittings & valves along with all consumables & fitting required for successful completion of project.			-	-
PL004.01	Laying of 32 mm Dia PE by HDD method in all type of soil strata including hard rock strata without casing without diamond cutter as per instruction of EIC.	Mtrs.	8,750.00		-
PL004.02	Laying of 63 mm Dia PE by HDD method in all type of soil strata including hard rock strata without casing without Diamond cutter as per instruction of EIC.	Mtrs.	3,514.00		-
PL004.03	Laying of 125 mm Dia PE by HDD method in all type of soil strata including hard rock strata without casing without Diamond Cutter as per instruction of EIC.	Mtrs.	632.00		-
Total Cost (Excluding GST)					-
GST @18%					-
Grand Total (Including GST)					-

Note:

- Bidder to quote full quantities of quotes parts. Bidder quoted with part quantities of quotes part shall be liable for rejection.
- Quoted price shall be inclusive of all taxes and duties except GST.
- Bidder shall quote prices in given format of Schedule of Rates and shall not modify the format in any form.
- Bidder to clearly indicate 'Quoted' against each Sr. No. in the price column in the un-priced Schedule of Rates and submit the same in the un-priced part of the bid.
- Bidder to fill entries in "Blue" highlighted cell/box only.

Authorized signatory of Bidder:

Place:



SCHEDULE OF RATES (SOR)

LAYING OF PE PIPELINE NETWORK & ABOVEGROUND INSTALLATIONS FOR PNG CONNECTIONS AT KOLHAPUR GA

Tender No.: HOGPL/WC/2021/02



PART-B

Name of Bidder:

Item NO.	DESCRIPTION	Unit	Quantity	Unit Rate (inclusive of all taxes and duties except GST) (in INR)	Total Cost (inclusive of all taxes and duties except GST) (in INR)
1	2	3	4	5	6 = (5 X 4)

Authorized Signatory of Bidder:

Place:

Seal of Bidder:

Date: